# BRUHAT BANGLORE MAHANAGARA PALIKE

## DASARAHALLI-ZONE

## T.DASARAHALLI-SUB-DIVISION.

***Name of Work:-*** *Drilling of Borewells,Providing Pump Motor & Serviceing at Coconut Garden in Dasarahalli Ward No-15.*

Estimate Cost :- 7.00 Lakhs

**BRUHATH BANGALORE MAHANAGARA PALIKE.**

**NAME OF THE WORK: Drilling of borewells,Providing pump motor and servicing at Cocunut garden in ward no 15.**

Est.cost Rs. 7.00 Lakhs

| Sl. No. | Description | Unit | Nos | L | B | D | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR) | | | | | | | | |
| | | each | 1 | | | | 1 | 1900.00 | 1900.00 |
| 2 | Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR) | | | | | | | | |
| | 0.00 to 50.00 Mtr. | Mtr | 1 | 50.00 | | | 50.00 | 306.00 | 15300.00 |
| | 50.00 to 100.00 Mtr. | Mtr | 1 | 50.00 | | | 50.00 | 400.00 | 20000.00 |
| | 100.00 to 150.00 Mtr. | Mtr | 1 | 50.00 | | | 50.00 | 445.00 | 22250.00 |
| | 150.00 to 200.00 Mtr. | Mtr | 1 | 50.00 | | | 50.00 | 470.00 | 23500.00 |
| | 200.00 to 250.00 Mtr. | Mtr | 1 | 50.00 | | | 50.00 | 544.00 | 27200.00 |
| | 250.00 to 300.00 Mtr. | Mtr | 1 | 50.00 | | | 50.00 | 583.00 | 29150.00 |
| | 300.00 to 350.00 Mtr. | Mtr | 1 | 50.00 | | | 50.00 | 622.00 | 31100.00 |
| 3 | Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/1993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR) | | | | | | | | |
| | | Mtr | 1 | 80.00 | | | 80.00 | 1325.00 | 106000.00 |
| 4 | Providing and fixing 250mm dia PVC pipe and as per specification and directions. ( BWSSB SR 13-14, P.No.53 I.no.1 of sl.no.11.) | | | | | | | | |
| | | Rmt | 1 | 18.00 | | | 18.00 | 1100.00 | 19800.00 |
| 5 | 175 mm dia M.S. Casing cap (P.NO-III, I.NO-85, PRED 12-13 SR) | | | | | | | | |
| | | Each | 1 | | | | 1.00 | 100.00 | 100.00 |
| 6 | M.S. Casing pipe collars 'C' Class (P.NO-III, I.NO-86, PRED 12-13 SR) | | | | | | | | |
| | | Each | 1 | 54.00 | | | 54.00 | 150.00 | 8100.00 |
| 7 | Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000 HP 25 stage (P.NO-XXXXIII, I.NO-33) | | | | | | | | |
| | | set | 1 | | | | 1.00 | 71265.25 | 71265.25 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Supplying and Drawing 3 core Flat PVC Shalted Submersible Pump Cable Manufactured with Electrolytic Grade Copper with Flexible copper conductor to table 3 class 5 of IS 8130-1984 and Virgen PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts as per Page No:49 item No 29C/1 PREE- SR 2011-12 | | | | | | | | |
| | | Mtrs | 1x2 | 300.00 | | | 600.00 | 151.00 | 90600.00 |
| 9 | Supplying and fixing 50mm Non Return Vavle of vertical type of approved make including cost of all materials labour HOM of equipment with all leads Complete as per Specifcation (As Per Rate approved By SE, RDED, Letter No.2081/2010-11 Dt:28-07-2010) | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 1530.00 | 1530.00 |
| 10 | Supplying and fixing 50mm GM Gae Vavle (As Per Rate approved by SE, RDED, Letter No.2081/2010-11 Dt: 28-07-2010) | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 1430.00 | 1430.00 |
| 11 | Supplying and fixing 160mm Borewell cap with clampset (As Per Rate approved by SE, RDED, Letter No.2081/2010-11 Dt: 28-07-2010) | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 690.00 | 690.00 |
| 12 | Supplying and fixing 50mm GI Union (As Per Rate approved by SE, RDED, Letter No.2081/2010-11 Dt: 28-07-2010) | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 245.00 | 245.00 |
| 13 | Supplying and fixing 50mm GI Elbow (As Per Rate approved by SE, RDED, Letter No.2081/2010-11 Dt: 28-07-2010) | | | | | | | | |
| | | Nos | 1 | 1.00 | | | 1.00 | 120.00 | 120.00 |
| 14 | Supplying and fixing 50mm GI coller Heavy duty | | | | | | | | |
| | | Nos | 1 | 16.00 | | | 16.00 | 1350.00 | 21600.00 |
| 15 | Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adharsh / GK Controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50 hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50 hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above componenets panel board for suitable pumpset with star delta staretr out door type 10hp to 15 hp (As per rate approved by SE, RDED, Letter No-2133/2010-11 DT: 30-07-2010) | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 10000.00 | 10000.00 |
| 16 | Providing and fixing of 50mm G.I pipe 'C' class heavy duty foe erection of submersible pumpset (As per BWSSB Store Issued Rate) | | | | | | | | |
| | | Mtrs | 1x48 | 6.00 | | | 288.00 | 402.75 | 115992.00 |
| 17 | Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete foundation bed cont door type etc., complete (As Per Rtae Approved by CE, RDED, Letter No-8650/2003-01 Dt: 8-3-2004) | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 475.00 | 475.00 |
| 18 | Supplying of TPST with rewireable porcelain channels in SM encloser 15/32 amps P-346, i-1.I(a), BWSSB SR 2008-09. | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 1350.00 | 1350.00 |
| 19 | Supplying and fixing 500x500x65mm polished wood board made up not less than 15mm thick plank in front plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts, P-346, I-2(f), BWSSB SR 2008-09. | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 275.00 | 275.00 |
| 20 | Supplying and fixing LED Type panel board indicating lamp with required colour suitable for 220 v AC 50Hz 12/24 V DC Group 'B'. P-354, I-35(b), BWSSB SR 2008-09. | | | | | | | | |
| | | Nos | 1 | 1.00 | | | 1.00 | 350.00 | 350.00 |
| 21 | Supplying and drawing each PVC insulated 650/100 V grade wire in the conduct (Open or Concealed system of wiring ) 7/20 or 7/36 copper wire. P-332, I-20, ii(d), BWSSB SR 2008-09. | | | | | | | | |
| | | Nos | 1 | 10.00 | | | 10.00 | 25.00 | 250.00 |
| | | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Supplying, fixing and wiring heavy duty low voltage capacitors confirming to I 2834, 3 PHASE 400/440 Volts grade for power factor improvement of rotating machinery capacitor in KVAR - rating Nos 2 KVAR Capacity P-354, I-34(a), BWSSB SR 2008-09. | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 350.00 | 350.00 |
| | | | | | | | | | |
| 23 | Supplying and fixing miniature Circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required P-350, I-13 (E, a), BWSSB SR 2008-09. | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 1075.00 | 1075.00 |
| 24 | Supplying, fixing, wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.50m long buried in a pit. The pit should be filled with equal proportion of solt and charcoal 150mm alround the pipe to complete depth. the connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specifications 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia P-377, I-7, BWSSB SR 2008-09. | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 1500.00 | 1500.00 |
| 25 | Supplying and fixing class A (medium duty) GI pipe wall thickness not less than 3.25mm on pole. | | | | | | | | |
| | | Nos | 1 | 10.00 | | | 10.00 | 220.00 | 2200.00 |
| | | | | | | | | | |
| 26 | Supply 1.1 KV class UG cable from nearest BESCOM pole to panel board including earth work and road restoratio 4 core 16 sqmm. P-378, I-10(d), BWSSB SR 2008-09. | | | | | | | | |
| | | Mtrs | 1 | 15.00 | | | 15.00 | 150.00 | 2250.00 |
| 27 | Labour charges for laying 1.1 KV class UG cable when supplied by agencies in existing trenches GI pipe / stoneware pipe/ on pole as required, P-379, I-77 (a), BWSSB SR 2008-09. | | | | | | | | |
| | | Mtrs | 1 | 30.00 | | | 30.00 | 5.00 | 150.00 |
| | | | | | | | | | |
| 28 | Digging of trench of 0.6m deep x 0.5m wide refilling the trench to the required level and consolidating etc., complete P-379, I-12 (b), BWSSB SR 2008-09. | | | | | | | | |
| | | Mtrs | 1 | 15.00 | | | 15.00 | 50.00 | 750.00 |
| 29 | Supply and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with neccesary bitumen/insulating compound complete with termiinalas, clamps, bolts, nuts, washers etc., P-380, I-16(b), BWSSB SR 2008-09. | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 240.00 | 240.00 |
| 30 | Supplying and fixing of porcelain fuse channel with cut-out on existing / new wooden panel using neccesary nuts, bolts and washers etc., complete P-32, I-3 (b), PWD ELECTRICAL SR 2010-11. | | | | | | | | |
| | | Nos | 1 | 6.00 | | | 6.00 | 219.00 | 1314.00 |
| 31 | BESCOM Deposit charge and miscellanious. | L.S | 1 | | | | 1.00 | 15000.00 | 15000.00 |
| 32 | Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Asphalt surface road. (Pg. No-267, I.No-37.38) | | | | | | | | |
| | | Cum | 1 | ~~395.00~~ 100.00 | 0.60 | 0.15 | ~~35.55~~ 9.00 | 255.46 | ~~9882.00~~ 2294.14 |
| 33 | Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. Noll KBS 2.1.C/2.9.4/2.18/2.19 (Pg. No-5, I.No2.4) | | | | | | | | |
| | | Cum | 1 | ~~395.00~~ 100.00 | 0.60 | 0.75 | ~~177.75~~ 65.00 | 190.80 | ~~33915.00~~ 8586.00 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 34 | Providing and installing at site of work P.V.C pipees including cost of pipes and specials and labour including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not leass than 15 cms with gravel or selected earth available from the excavation etc., complete PVC pipes of 6kg/Sqm 75mm Dia.(Page NO-14, ITEM no-3.4.2 (b), of PRE SR 2011-12). | | | | | | 100.00 | | 11700.00 |
| | | Rmt | 1 | 311.00 100.00 | | | 311.00 | 117.00 | 36387.00 |
| 35 | Supplying and fixing 50 mm GI pipes 'C' class heavy duty (As PER bwssb Store Issued Rate) | | | | | | | | |
| | | Mtrs | 1 | 10.00 | | | 10.00 | 402.75 | 4028.00 |
| 36 | Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. Including cost of all labour complete as per specification. (Pg. No-6, I.No-2.11) | | | | | | | | |
| | | Cum | | | | | 177.75 | 51.41 | 9138.00 |
| 37 | Disposing of excavated earth to the final place of disposal with all lead and lift & as directed by the Engineer in charge of the work. (Lead up to 15.00 KM) | | | | | | 159.62 | | 17062.60 |
| | | Cum | Same as Item No- 32 & 33 | | | | 213.30 | 106.85 | 22791.00 |
| 38 | Transportation of pumping machineries PRE SR 2011-12 PG 51/10.3.19 | | | | | | 1.00 | 850.00 | 850.00 |
| 39 | Erection of Pumping machineries PRE SR 2011-12 PG 51/10.3.20 | | | | | | 1.00 | 850.00 | 850.00 |
| 40 | Miscellanious and rounding off | | | | | | L.S | | 85.00 |
| | | | | | | | | TOTAL | 700000.00 |

(Rupees. Seven Lakhs Only)

**CERTIFICATE:-**

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PW,P & IWTD -SR-2012-13
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits
5 Approved Data Rate Sheet Enclosed

Assistant Engineer
Ward-14

Asst. Exe. Engineer
T.Dasarahalli Sub-Division
B.B.M.P.

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

A/S

ನಂ. JC(DH)AS 156/13-14 ದಿನಾಂಕ : 13/08/13
ರೂ. 07.00 lakhs (Rupees Seven lakhs only).
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Sl. No. 156.

ನಂ. EE/DD/13/60/13-14 ದಿನಾಂಕ : 26/8/13
ರೂ. 7.00 Lakhs [Rs. Seven Lakhs only]